

Serial No. 10/688,694  
Amendment Under 37 CFR §111  
Response to Office Action dated August 9, 2005

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (currently amended). A method of forming a film from a polychlorotrifluoroethylene (PCTFE) polymer, said method comprising the steps of :

- a) extruding molten PCTFE polymer;
- b) cooling said PCTFE polymer to a temperature below its melting point to form a film that is crystalline, said film having a crystallinity of from about 10 to about 45%;  
and
- c) orienting said PCTFE film ~~while it in its crystalline state~~ having said crystallinity of from about 10 to about 45% by stretching said film at a stretch ratio of at least about 1.5:1 while holding said film under tension;

wherein the resulting PCTFE film has a water vapor transmission rate of less than about 0.05 g/100 in<sup>2</sup>/day (0.775 g/m<sup>2</sup>/day).

2 (cancelled).

3 (original). The method of claim 1, wherein said film prior to orientation has a crystallinity of from about 15 to about 35%.

4 (original). The method of claim 1, wherein said PCFTE polymer comprises a homopolymer.

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5 (original). The method of claim 1, wherein said PCTFE polymer comprises a copolymer.

6 (original). The method of claim 1, wherein said film is oriented at a stretch ratio of from about 1.5:1 to about 5:1.

7 (original). The method of claim 1, wherein said film is oriented at a stretch ratio of from about 2:1 to about 3:1.

8 (original). The method of claim 1, wherein said film has a water vapor transmission rate of less than about 0.03 g/100 in<sup>2</sup>/day (0.465 g/m<sup>2</sup>/day).

9 (original). The method of claim 1, wherein said film has a water vapor transmission rate of less than about 0.015 g/100 in<sup>2</sup>/day (0.233 g/m<sup>2</sup>/day).

10 (original). The method of claim 1, wherein said film has a water vapor transmission rate of at least less than about 20% of the water vapor transmission rate of comparable film which is unoriented.

11 (original). The method of claim 1, wherein said film is monoaxially oriented.

12 (original). The method of claim 1, wherein said film is biaxially oriented.

13 (cancelled).

14 (currently amended). A method of forming a film from a polychlorotrifluoroethylene (PCTFE) polymer, said method comprising the steps of :

a) extruding molten PCTFE polymer onto a casting roll;

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b) cooling said PCTFE polymer to a temperature below its melting point on said casting roll to form a film that is crystalline, said film having a crystallinity of from about 10 to about 45%; and

c) orienting said PCTFE polymer film ~~while it in its crystalline state~~ having said crystallinity of from about 10 to about 45% by stretching said film between at least one relatively slow draw roll and at least one relatively fast draw roll at a stretch ratio of at least about 1.5:1 while holding said film under tension; and

d) collecting said oriented PCTFE polymer film;

wherein the resulting PCTFE film has a water vapor transmission rate of less than about 0.05 g/100 in<sup>2</sup>/day (0.775 g/m<sup>2</sup>/day).

15 (original). The method of claim 14, including the step of passing said film from said casting roll over a preheat roll prior to orienting said film.

16 (original). The method of claim 14, wherein said casting roll is maintained at a temperature of about 50 to about 250°F (10 to 121°C).

17 (original). The method of claim 14, wherein said casting roll is maintained at a temperature of about 75 to about 200°F (24 to 93°C).

18 (original). The method of claim 14, wherein said draw rolls are maintained at a temperature of about 75 to about 200°F (24 to 93°C).

19 (original). The method of claim 14, wherein said draw rolls are maintained at a temperature of about 90 to about 175°F (32 to 80°C).

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20 (original). The method of claim 14, wherein said film is oriented at a stretch ratio of from about 1.5:1 to about 5:1.

21 (original). The method of claim 14, wherein said film is oriented at a stretch ratio of from about 2:1 to about 3:1.

22 (cancelled).

23 (currently amended). The method of claim 14, wherein said film prior to orienting has a crystallinity of from about 15 to about 35%.

24 (original). The method of claim 14, wherein said PCFTE polymer comprises a homopolymer.

25 (original). The method of claim 14, wherein said PCTFE polymer comprises a copolymer.

26 (cancelled).

27 (cancelled).

28 (new). A in-line method of forming a film from a polychlorotrifluoroethylene (PCTFE) polymer, said method comprising the steps of :

b) extruding molten PCTFE polymer onto a casting roll;

b) cooling said PCTFE polymer to a temperature below its melting point on said casting roll to form a film that is crystalline, said film having a crystallinity of from about 10 to about 45%; and

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c) without winding up said PCTFE polymer film, orienting said PCTFE polymer film having said crystallinity of from about 10 to about 45% by stretching said film between at least one relatively slow draw roll and at least one relatively fast draw roll at a stretch ratio of at least about 1.5:1 while holding said film under tension; and

d) collecting said oriented PCTFE polymer film;

wherein the resulting PCTFE film has a water vapor transmission rate of less than about 0.05 g/100 in<sup>2</sup>/day (0.775 g/m<sup>2</sup>/day).

29 (new). The method of claim 28, wherein said PCTFE polymer film is oriented at a stretch ratio of from about 2:1 to about 2.5:1.